



Naval Medical Research and Development

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Content Editor

NSMRL Hosts Young Scientists as Part of STEM Programs

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Story from NSMRL Public Affairs



Tess Candler (left), undergraduate at Eastern Connecticut State University, and Jeff Bolkhovskiy (right), graduate student working towards his PhD at the University of Connecticut, participants in the Naval Research Enterprise Internship Program (NREIP) and the Science and Engineering Apprenticeship Program (SEAP), sponsored by the Office of Naval Research. (Photo courtesy of Naval Submarine Medical Research Laboratory Public Affairs)

GROTON, Ct. -- Dr. Michael Qin, Principal Investigator at the Naval Submarine Medical Research Laboratory, had the opportunity to mentor young scientists participating in the Naval Research Enterprise Internship Program (NREIP) and the Science and Engineering Apprenticeship Program (SEAP), sponsored by the Office of Naval Research. The STEM programs focus on developing young scientists. The 8-10 week paid internship programs are administered by the American Society for Engineering Education (ASEE).

NREIP interns are selected based on academic achievement, personal statements, and recommendations, and career and research interests. This internship program is designed to provide opportunities for undergraduate and graduate students to participate in research under the guidance of a research mentor.

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[R&D Chronicles: The Mosquito Fighters, Part VI - The Philippine Occupation and the Dengue Threat](#)

Mr. Jeff Bolkhovsky, a graduate student working towards his PhD at the University of Connecticut, returned for his third year as an intern at NSMRL; he is working on improving cognitive models. Mr. Bolkhovsky analyzed data from sleep deprivation experiments to quantify performance changes across various tasks. He created maps of various cognitive models that separated models out into components to allow for easy analysis. Relevance to the Navy is to provide information on performance changes with sleep deprivation for computerized tasks and improve the quality of cognitive models allowing for increased accuracy and precision for prediction.

Ms. Tess Candler is an undergraduate at Eastern Connecticut State University, working towards a BS in Economics and BA in Political Science. She used a process diagram of MEDEVAC as well as informal talks with experts to gather more specific data about MEDEVAC procedures. This data was then entered into a software program and used Monte Carlo simulations to find the statistical distribution of elapsed times for a variety of initial patient’s medical conditions. Ms Candler was able to create a model of MEDEVAC, and create a pedigree for information to refine the model. This information could be used to evaluate the effectiveness of potential technological and/or procedural improvements of the MEDEVAC process.

Navy Surgeon General Emphasizes Importance of Research to Warfighter Survivability

NAMRU-SA Researchers Work to Prevent Infections with Field-Ready Sterilizer

Navy Medicine Researchers Study Impact of Acute Gastroenteritis on Deployed Personnel

Navy Medicine Researchers Find Risk of Delayed Amputation Highest in Combat-Related Foot Fractures

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